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NATIONAL COMMUNICATIONS SYSTEM

TECHNICAL INFORMATION BULLETIN 87-18

RADIO FACSIMILE

VOLUME II: TEST RESULTS



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NATIONAL COMMUNICATIONS SYSTEM



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NCS-TS

SEP 1 3 1988

Defense Technical Information Center

ATTN: DTIC-FDAC Cameron Station

Alexandria, VA 22314-6145

Dear Mr. Proctor:

The enclosed Technical Information Bulletins are being returned to you as is for final processing. Per our telephone conversation, the pages in question are intentionally prepared to include poor facsimile tranmission examples.

DENNIS BODSON

Assistant Manager Technology & Standards

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NCS TECHNICAL INFORMATION BULLETIN 87-18

RADIO FACSIMILE VOLUME II: TEST RESULTS

PROJECT OFFICER

APPROVED FOR PUBLICATION:

DENNIS BODSON Senior Electronics Engineer Office of NCS Technology and Standards Dennis Bolson

Assistant Manager

Office of NCS Technology
and Standards

FOREWORD

Among the responsibilities assigned to the Office of the Manager, National Communications System, is the management of the Federal Telecommunication Standards Program. Under this program, the NCS, with the assistance of the Federal Telecommunication Standards Committee identifies, develops, and coordinates proposed Federal Standards which either contribute to the interoperability of functionally similar Federal telecommunication systems or to the achievement of a compatible and efficient interface between computer and telecommunication systems. In developing and coordinating these standards, a considerable amount of effort is expended in initiating and pursuing joint standards development efforts with appropriate technical committees of the Electronics Industries Association, the American National Standards Institute, the International Organization for Standardization, and the International Telegraph and Telephone Consultative Committee of the International Telecommunication Union. This Technical Information Bulletin presents an overview of an effort which is contributing to the development of compatible Federal, national, and international standards in the area of facsimile. It has been prepared to inform interested Federal activities of the progress of these efforts. Any comments, inputs or statements of requirements which could assist in the advancement of this work are welcome and should be addressed to:

> Office of the Manager National Communications System ATTN: NCS-TS Washington, DC 20305-2010

VOLUME II RADIO FACSIMILE TEST RESULTS Final Report

Submitted to:

NATIONAL COMMUNICATIONS SYSTEM
8th & S. Courthouse Roads
Arlington, VA 22204

DELTA INFORMATION SYSTEMS, INC.

Horsham Business Center, Bldg. 3

300 Welsh Road

Horsham PA 19044

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Volume II - Radio Facsimile Test Results

This volume contains the raw data obtained from tests of groups-1, -2 and -3 FAX using The Government's HF simulator at Ft. Monmouth, New Jersey. (Volume I is the Final Report based on this data.) Both the premessage exchange and the message portion of a FAX transmission are tested. For a premessage test, five trials are made and the successes and failures are recorded. For the message test, the message is transmitted and the received Government taker as the test result.

The tests are identified by a Roman numeral which may be followed by a letter, and a number. The numeral I identifies the base-line test, II indicates a test of a single impairment, and III is a composite test. The capital letter identifies the type of impairment, such as selective fading or noise; and the number identifies the degree of impairment.

It will be noted that variations in bandwidth are not included in the tests. The bandwidth was set (using external filters) to run from 600 to 2800 Hz.

Most tests are run for both the premessage exchange and the message portion of the transmission. In some cases, when the premessage exchange failed, the test of the message portion was still run by forcing the equipment to go to the message phase.

A-1 23/1/

Following is a list of those tests performed:

- I. Base-line tests, single path, no noise, no impairments.
 These tests provide a basis for comparison.
- II. Primary tests, single impairment. These tests measure the effect of one impairment at a time.
 - A. Gaussian noise (simulator setting plus 7.5 dB).
 - 1. S/N = 10 dB (normal)
 - 2. S/N = 12 dB
 - 3. S/N = 14 dB
 - 4. S/N = 16 dB
 - 5. S/N = 22 dB
 - B. Impulse Noise
 - 1. Random, 100/min, 1 m sec, 0 dB peak-to-rms signal
 - 2. Random, 500/min, 1 m sec, 0 dB peak-to-rms signal
 - 3. Random, 500/min, 1 m sec, 6 dB peak-to-rms signal
 - C. Multipath (= differential delay)
 - 1. Two paths, equal attenuation, $\tau = 1$ m sec, 1 Hz off-set.
 - 2. Two paths, 3 dB difference, Y= 1 m sec, 1 Hz off-set.
 - 3. Two paths, 6 dB difference, T = 1 m sec, 1 Hz off-set.
 - 4. Two paths, 9 dB difference, 7 = 1 m sec, 1 Hz off-set.

- 5. Two paths, 12 dB difference, $\tau = 1$ m sec, 1 Hz off-set.
- 6. Two paths, 15 dB difference, T = 1 m sec, 1 Hz off-set.
- 7. Two Paths, 18 dB difference, γ = 1 m sec, 1 Hz off-set.
- 9. Three paths, 12 dB difference, Υ = 1 and 0.3 m sec, 1 and 0.5 Hz off-set.

D. Flat Fading

1. Single path, Doppler spread = 1 Hz.

E. Doppler

- 1. Single Path, 75 Hz
- 2. Single Path, + 75 Hz
- 3. Single Path, 32 Hz
- 4. Single Path, + 16 Hz
- 5. Single Path, + 7 Hz
- 6. Single Path, + 10 Hz

III. Secondary tests with multiple impairments

- C-1. Multipath, Doppler, and Gaussian Noise;
 Two paths, 12 dB difference, 1 m sec delay,
 1 Hz off-set, 21.5 dB S/N, 7 Hz Doppler.
- C-2. Same as C-1 but with 19.5 dB S/N, and 16 Hz Doppler.

- C-4. Impurse Noise and Gaussian Noise only; single path, 14 dB S/N.

TEST			
вw _600	TO 28	SH C	
PATHS			
GROUP I	S/F 🚜	۶ ۲	
	., -		
GROUP II	S/F	5	

TRANSLATION C' Hz

TYPE - PREMESSAGE

	PATH NUMBER							
	-1-	-2-	5-	-4-	-5-	-6-		
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
(MS_BOP(Hz)2 sign)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
UELAY (usec)	0	()	()	O	c)	1.		
STOMAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00		
SIGNAL (URMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000		
SIGNAL (ON/OFF)	<un></un>	OFF	UFF	OFF	OFF	OFF		
JIVERSITY NO.	1	1	1	1	1	1		
OMPOSITE RMS FADE	RATE:	0.00000	Hortz					
(MPULSE NOISE OFF	, PERIODI	C 0	.000 dB R	E PEAK OU	TPUT			
FREQUENCY: 0.100	000E+02 i	mpulses/m	in PULS	E WIDTH:	0.000100	seconds		
HANNEL HOISE OFF	· FUWER I	N_dBm:	-40.0000	RMS Volta	se: _0,007	7,43		
JAHMING UKF								
المنا								

TEST	TYPE - MESSAGE
BW 600 TO 2800 HZ	S/NdB
PATHS /	TRANSLATION O Hz
GROUP I	DOCUMENT <u>09-09-86</u> 10:19
GROUP II	DOCUMENT <u>69-09-86</u> 10:14

GROUP III DATA RATE 4800 bps DOCUMENT 09-09-86 10:02

PATH NUMBER -- OELAY--- (13 9 8 2) 0.00 -200.00 -200.00 -200.00 -200.00 -200.00 to [GMot (dBm) ESTENAL (VEMS) 0.7746 0.0000 0.0000 0.0000 0.0000 0.0000 +516446 + CHY201+7 --1 1 1 IDIVERSITY NO. HOMPUSITE RMS FADE RATE: 0.00000 Hertz IMPULSE NOISE PFF, PERIODIC 0.000 dB RE PEAK OUTPUT - FREQUENCY:-0:100000E:02-impulses/min-- PULSE-WIDTH:-0:000100-seconds-ECHANNEL NOISE OFF, FOWER IN dBm: -40.0000 RMS Voltage: 0 007746

LEAMHENS OFF



HORSHAM BUSINESS CENTER BUILDING 3 300 WELSH ROAD HORSHAM PA 19044 (215) 657-6270

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This is a document prepared for checking facsimile transmission over radio. Since radio channel parameters may change over the transmission of one document, this page is filled with text in order to observe the effect of any changes.

This text is purposely typed close to the top of the page. Some transmitted documents may be rejected after a few inches of text in order to save testing time where a short text is sufficient.

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - + = :; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TATAL D. ...



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST <u>II-A-1</u>

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N // dB

PATHS _____/

TRANSLATION O Hz

GROUP I S/F 5,5,5,F,F, 5

GROUP II S/F 5,5,5,5, (all unacceptable documents)

GROUP III S/F DATA RATE

\[\frac{1}{2} \frac{F}{F} \]
\[\frac{3}{4} \frac{F}{F} \]
\[\frac{4}{5} \frac{F}{F} \]
\[\frac{1}{2400} \]
\[\frac{4}{5} \frac{F}{F} \]
\[\frac{1}{2400} \]
\[\frac{1}

!	PATH NUMBER						
1	-1-	-2-	-3-	-4-	-5-	-6-	
HEAN DOF (Hz)	0.0000	0+0000-	-0+0000-	0+0000-	0.0000-	0+0000 -	
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
IDELAY (usec)	0	0	0	0	0	0	
+SIGNAL-(dBm)		204+86	204:B6	204:86-	204:86-	204:86-	
ISIGNAL (VRMS)	0.6197	0.0000	0.0000	0.0000	0.0000	0.0000	
ISIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF	
IDIVERSITY NO.	i	1	1	1	1	1	
1							
ICOMPOSITE RMS FADE	RATE:	0.00000 H	Hertz				
I							
LIMPULSE NOISE OFF	, PERIODI	C 0	.000 db Ri	E PEAK OU	TPUT		
FREQUENCY: 0.100	000E+02 in	neulses/mi	in PULSE	E WIDTH: (0.000100	seconds	
 							
ICHANNEL NOISE (ON)	, POWER IN	4 dBm:	-4.4378 F	RMS Voltas	se: 0.4647	716	
1							
LIAMMING OFF							

TEST $\overline{II} - A - 1$

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N 10 dB

PATHS /

TRANSLATION O Hz

GROUP I

DOCUMENT 9+23-86 10:33

GROUP II

DOCUMENT 9-23-86 09:48

GROUP III DATA RATE 2900 bps DOCUMENT 9-23-86 9:41

	PATH NUMBER						
		2		4=	-5	6=	
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SIGNAL (dBm)	-1.94	-204.86	-204.86	-204.86	-204.86	-204.86	
SIGNAL (VRMS) SIGNAL (ON/OFF)	0.6197	0.0000 	0.0000 	0.0000	0.0000 OFF	0.0000 ————————————————————————————————	
DIVERSITY NO.	1	1	1	1	1	1	
COMPOSITE RMS FADE IMPULSE NOISE OFF FREQUENCY! 0:100	, PERIODI	С 0	.000 dB R			seconds	
CHANNEL NOISE <on></on>	, power I	N dBm:	-4.4378	RMS Volta	de: 0.464	716	
JAMMING UFF							



HOREMAIN BUSINESS CENTER BUILDING S. 200 WELSH MOND HOREMAIN, RA 18044 (219) 897 3870

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b o d e f g h i j k l m n o p q f s t u v w x y z , 1 2 3 4 5 6 7 6 9 0 A B C D E F G H I J K L M N U P Q R S T U V W X Y Z ! 6 8 6 6 * () - + = *, **

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b t d e f g h i j k l m n o p q r s t u v w x y z , / l 2 l 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P O R S T U V W X Y Z ! 2 f S & 6 * () - + * ; ; ****

The following is a list of various latters, numbers, and symbols which can be found on many typewilters: a b c d e f q n 1 j k l m n o p q r s t u v w x y z . . / 1 2 3 4 5 5 7 8 9 3 A B C D E F G H T J K L M N O P Q R S T U V W X Y Z l 3 8 8 6 8 () - * # 5 1 1

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

89/23/86 89:48 E. 1

9.23.86 09:48



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MENDEST CENTER BIASHO I TOTAL SUBSIDIO BURSHIA MATIMA BUASI 1670

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The following is a list of earlows letters, numbers, and symbols which can be found on many typewriters: a b c d a f g h i j k l m m o p q r x t m v x y x , . / 1 2 3 8 5 6 7 8 9 8 h s C U E F G Z I J Z L H X O P Q X S T G V Z X Y Z J + 5 % & 4 () - + - : ; '

The following is a list of various latters, numbers, and symbols which can be found on many typewriters: a b c d w f y b i j k l m n o p q r s t w v w x y s . . / 1 2 3 4 5 6 7 8 9 9 8 8 C D E F G R 1 J E L M E O P Q R S T U V W X T Z 1 2 4 3 4 6 7 1 2 2 3 4 5

The failuring is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z ... / 1 2 3 4 5 5 7 8 9 B A B C D B F G H I J Z L N B G P Q R S T D W H X Z Z I S 1 5 4 5 5 5 () -) = r;

The following is a list of parious letters, numbers, and symbols which can be found on many typewriters: a b o d e f g b i j k l m m o p q r s t u v w x y s , . / 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 5 5 5 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 5 5 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 5 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B F J E L M N O P Q R S T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 F G B T U V W X Y 2 1 2 3 4 5 6 7 8 9 0 A 8 C D 2 7 8 8 7 8 9 0 A 8 C D 2 7 8 8 8 7 8 9 0 A 8 C D 2 7 8 8 7 8 9 0 A 8 C D 2 7 8 8 8 7 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8 8 8 9 0 A 8 C D 2 7 8 8

The following is a list of various latters, numbers, and symbols which can be found on many typewriters; a b c d



DELIA (NEOKMATION EYETEME, INC. Haanitti ahanisaa aanasa, ahka ha i

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The fellewing is a list of various ferrers, numbers, and a, minimum of the fermion of the fermio

TEST II - A - 2

TYPE - PREMESSAGE

вы 600 то 2800 нг

S/N /2 dB

PATHS _____

TRANSLATION _ G Hz

GROUP I S/F

GROUP II S/F

GROUP III S/F DATA RATE

1 S 24 c-0
2 5 24 6-0
3 5 24 6-0

	FATH NUMBER							
1	-1-	-2-	-3-	-4-	-5 -	-6-		
IMEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
FRMS-00F(Hz)2-sid-	-0.000-	0 - 0 0 0 0	0.0000	0.0000	0.0000	0+0000-		
IDELAY (usec)	0	0	0	0	0	0		
ISIGNAL (dBm)	-1.32	-201.32	-201.32	-201.32	-201.32	-201.32		
+SIGNAL-(VRMS)	-0.6655 -	-0+0000-	0+0000-	0+0000	-0+0000-	0.0000		
(SIGNAL (ON/OFF)	<00>>	OFF	OFF	OFF	OFF	OFF		
IDIVERSITY NO.	1	1	1	1	1	1		
		0.00000		E DEAK OII	TEUT			
FREQUENCY: 0.1000 GHANNEL-NOISE-<0N>+ JAMMING OFF	000E+02 in	neulses/m	in PULS	E WIDTH:	0.000100			

	 - ·							
Ì		PATH NUMBER						
1	-1-	-2-	-3-	-4-	-5-	-6-		
HMEAN DOP (Hz)	0:0000	-0.0000	0.0000	0.0000	0.0000	-0.0000		
(RMS DOP(Hz)2 sid	0.0000	0.0000	000000	0.0000	0.0000	0.0000		
IDELAY (usec)	0	0	0	0	0	0		
ISIGNAL (dBm)	-1.32	-201-32-	-201:32-	-201:32-	201:32-	 201 -3 2-		
ISIGNAL (VRMS)	0.6655	0.0000	0.0000	0.0000	0.0000	0.0000		
ISIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	DFF		
+DIVERSITY-NO.		1	· 1	· 1	· 1	1		
COMPOSITE RMS FAD	E RATE:	0.00000	Hertz		···			
IMPULSE NOISE OF	F, PERIODI	0 0	.000 dB RE	E PEAK OU	TPUT			
FREQUENCY: 0.100	0000E+02 i	meulses/m	in PULSE	E WIDTH: (0.000100	seconds		
ICHANNEL NOISE < ON	POWER I	N dBm:	-5.8188 F	kMS Volta	≸e: 0.396	402		
HJANKING OFF	 							

.111



DELTA INFORMATION SYSTEMS, INC. MORSMAM BUSINESS CENTER, BUILDING 3

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 # \$ 1 6 * () - _ + * 1, * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U v W x Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # S % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F C II J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 G 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N /4 dB

PATHS ___/

TRANSLATION O Hz

GROUP I S/F

GROUP II S/F

twin the system went to group I

+					. —		
1			ም ለተዘ א	UMBER			
1	1	-2-	-3-	-4-	-5-	-6-	
IMEAN DOF (Hz)	0.0000		0.9000	0+000-	0+0000-	0+0490	
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
IDELAY (usec)	0	0	0	0	0	Ö	
+SIGNAL- (dBm)	-0.88	-202.20	-202.20	-202.20	~202.20	202.20	. !
ISIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000	
ISIGNAL (ON/OFF)	< NO >	OFF	OFF	OFF	OFF	OFF	
IDIVERSITY-NO-		1-	1				
1							1
ICOMPOSITE RMS FADE	RATE:	0.00000	Hertz				
 							
TIMPULSE NOISE OFF	, PERIODI	.C 0	,000 db R	E FEAK OU	TPUT		
FREQUENCY: 0.100	000E+02 i	mpulses/m	in PULS	E WIDTH:	0.000100	seconds	
ICHANNEL NOISE (ON)	, POWER I	N dBm:	-7,3774	RMS Volta	se: 0.331	289	
ł							
					-		
1							

TEST	TYPE - MESSAGE
BW 600 TO 2500 HZ	S/N <u>/4</u> dB
PATHS /	TRANSLATION OH2
GROUP I	DOCUMENT 9-23-86 8:56
GROUP II	DOCUMENT
GROUP III DATA RATE 2400 bps	DOCUMENT 9-23-86 9:04

 	PATH-NUMBER							
	- 1 -	-2-	-3-	-4-	-5-	-6-		
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
RMS BOP(Hz)2 sis	-0.0000 -	0.000	0+0000-	0+0000-	0.0000-	0++000		
DELAY (usec)	0	0	0	0	0	0		
SIGNAL (dBm)	-0.88	-202.20	-202.20	-202.20	-202.20	-202.20		
SIGNAL (VRMS)	0+7002 -	0+000		0.0000 -	0.000	0+0000		
SIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF		
DIVERSITY NO.	1	1	1	1	1	1		
COMPOSITE RMS FADE		0.00000		E 5546 00	TOUT			
FREQUENCY: 0.1000						seconds		
CHANNEL NOISE CONS		N-dBm+	-7+37 74	RMS -V olta	se!—0 -331	289		
JAMMING OFF								



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # S % & * () - _ + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 6 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 3 \$ \$ & & * () - _ + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 0 # \$ & & * () - + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y 2 ! 2 * S & & * () - _ + = :;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 2 \$ \$ \$ \$ * () - _ + * :;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 # \$ % & * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c \hat{a}

TEST II-A-4

TYPE - PREMESSAGE

BW 600 TO 2400 HZ

S/N / dB

PATHS ___/

TRANSLATION O Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 5,5,5,5

GROUP III

S/F
DATA RATE

2 F
2 F
2 4000

1	PATH NUMBER						
1	-1-	-2-	-3-	-1-	-5-	-6-	
HEAN DUF (Hz)	- 0.0000 -	- 0.0000	0+0000-	-0.0000		-0.0000	
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
IDELAY (usec)	0	0	0	0	0	0	
ISIGNAL (dBm)		-202-77	202.77-	202.77-	-202-77	-202.77	
ISIGNAL (VRMS)	0.7251	0.0000	0.0000	0.0000	0.0000	0.0000	
ISIGNAL (ON/OFF)	<0.00>	OFF	OFF	OFF	OFF	OFF	
DIVERSITY NO.	1						
					_	-	
COMPOSITE RMS FADE	RATE:	0.00000	Hertz				
IMPULSE NOISE OFF	, PERIODI	r <i>(</i>	0.000 dB R	E DEAK OU	TOUT		

| FREQUENCY: 0.100000E+02 impulses/min | FULSE WIDTH: 0.000100 seconds | |

ICHANNEL NOISE <ON>, FOWER IN dBm: -9.0738 RMS Voltage: 0.272511

TEST II-A-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

'S/N /6 dB

PATHS /

TRANSLATION O Hz

GROUP I 5,5,5,5

DOCUMENT 9-23-86 10:18

GROUP II 5, 5, 5, 5, 5

DOCUMENT 8-23-86 10:09

GROUP III DATA RATE 2400 bps DOCUMENT 09-23-86 69:21

r	and the second s						
		PATH NUMBER					
l	-1-	-2-	-3-	-1-	-5-	-6-	
IMEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
(RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
IDELAY (usec)	0	0	0	0	0	0	
ISIGNAL (dBm)	-0.57	-202.77	-202.77	-202.77	-202.77	-202.77	
ISIGNAL (VRMS)	0.7251	0.0000	0.0000	0.0000	0.0000	0.0000	
ISIGNAL (ON/OFF)	<0.0>	OFF	OFF	OFF	OFF	OFF	
DIVERSITY NO.	1	1.	1	1	1	1.	

(COMPOSITE RMS FADE RATE: 0.00000 Hertz

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

+CHANNEL NOISE <0N>+ FOWER IN dBm1 --- 9+0738-RMS Voltage: 0+272511-

LJAMMING OFF



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 4 \$ % & * () - _ + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 G A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J R L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - + * : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z l @ \$ \$ & & * () - + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # S & & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmaopqrsthywzyz,, /12345 67890ABCDEPGHIJELMHOPQRSTUVHIT 21 44\$ 66 * () - _ + = : ; * *

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efgbijklmnopgratuvvzyz,./12345 \$ 7 \$ 9 \$ A B C D B F G H I J K L M M O P Q R S T Q V W X Y

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklmnopqrstuvwxyz,./12345 67890ABCDBPGHIJKLNHOPQRSTUVNXT

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklmnopgrstoveryz,./12345 67850ABCDEFGHIJKLNHOPQRSTBVMXY

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmaopqrstuvvzyz,,/12345 67890ABCDBPGHIJILNHOPQRSTUVWIT

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklmnopqrstuvwzyz,./12345 67890 A B C D E P G H I J E L N H O P Q E S T U V H X T #1 # # \$ # # # {) - + = : ; * *

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopqrstuvwxyz,./12345 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y 21 0 4 5 % 6 * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopqrstuvwxyz,./12345 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y 2 ! @ # \$ % & * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopqrstuvwxyz,./1234567890ABCDEFGHIJKLMNOPQRSTUVWXY 21 0 # \$ % & * () - | + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopgrstuvwxyz,./12345 67890 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopqrstuvwxyz,./12345 67890ABCDEFGHIJKLMNOPQRSTUVWXY 2 1 0 # \$ % & * () - _ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopqrstuvwxyz,./12345 67890ABCDEFGHIJKLMNOPQRSTUVWXY 21 0 4 5 3 6 * () - + = 1; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 22 dB

PATHS __/

TRANSLATION O Hz

GROUP I S/F

GROUP II S/F

GROUP III S/F DATA RATE

\[\frac{1}{2} \frac{5}{5} \quad \frac{4900}{200} \]

\[\frac{1}{5} \frac{5}{5} \quad \frac{5}{5} \quad \frac{4900}{5} \quad \frac{4900}{5} \quad \frac{1}{5} \quad \quad \frac{1}{5} \quad \quad \frac{1}{5} \quad \quad \quad \frac{1}{5} \quad \q

T .							
1	PATH NUMBER						
1	-1-	-2-	-3-	-4-	~5~	-6-	
IMEAN DOP (Hz)	- 0.0000	0.000	-0.0000	-0.0000 -	-0.0000 -		
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
IDELAY (usec)	0	0	0	0	0.0000	0.0000	
ISIGNAL (dBm)	0.15 -	-202-92	 202.92 -	_202.92	202-82-	-202.92	
ISIGNAL (VRMS)	0.7612	0.0000	0.0000	0.0000	0.0000	0.0000	
ISIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF	
IDIVERSITY NO.		1_	1_	1	1	1	
1		_	~	•			
COMPOSITE RMS FADE	RATE:	0.00000	dertz.				
							
IIMPULSE NOISE OFF	, PERIODIO	0.	.000 dB RE	PEAK OUT	FUT		
FREQUENCY: 0.1000	000E+02 im	eulses/mi	n FULSE	WINTH: C	0.000100 6	econde	1
<u> </u>						seconds	
ICHANNEL NOISE <0N>	POWER IN	dBm: -	14.6514 R	MS United	e: 0.1437	125	
1	=	· ·- ·				,,,,	,
HANNING OFF							,
L = - =							

TEST	TYPE - MESSAGE
BW 600 TO 2500 HZ	S/N <u>22</u> dB
PATHS/	TRANSLATION O Hz
GROUP I	DOCUMENT
GROUP II 5,5,5,5	DOCUMENT 9-23-86 9:58

GROUP III DATA RATE 4800 bps

DOCUMENT 9:23:86 9:31

-- PATH NUMBER ----------1--2--5--3- -4--6-IMEAN DOP (Hz) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 IRMS DOP(Hz)2 sig 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 IDELAY (usec) 0 0 0 0 0 0 -202.92 ISIGNAL (dBm) -0.15 -202.92 -202.92 -202.92 -202.92 ISIGNAL (VRMS) 0.0000 0.7612 0.0000 0.0000 0.0000 0.0000 ISIGNAL (ON/OFF) <0N> OFF OFF OFF OFF OFF IDIVERSITY NO. 1 1 1



DELTA INFORMATION SYSTEMS, INC. HORSHAM STEBRESS CENTER SETTORIS 7 300 MELSH BONO securities of the

279 467-52M

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklanopqrstuvuzyz,./12345 67890ABCDEPGHIJXLMMOPQRSTUVWXY

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklmnopgrstuvvxyz,./12345 67890ABCDEFGHIJKLMNOPQRSTUVWXY

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmaopgrstuvvzyz,./12345 67890ABCDEFGHIJKLMHOPQRSTUVWII

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklmnopgrstavwxyz,./12345 67890ABCDBFGBIJKLHHOPQRSTUVWXY *! **! ! \$ * * (**) - _ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d efghijklmnopqrstuvvxyz,./12345 67890ABCDEPGHIJELMNOPQRSTOVWXY I! # \$ \$ & * { } - + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d efghijklanopqrstuvwxyz,./12345 67890 A B C D B F G H I J X L M N O P Q R S T U V W X T

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 @ # \$ % & * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 \$ \$ & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 @ # \$ % & * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST <u>II-B-1</u>

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 00 dB

PATHS ____

TRANSLATION _ O Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1_		2400
2		2400
3	S	2400
4	5	4900
5		4800

	PATH NUMBER					
	-1-	2-		-4-	-5-	-6-
MEAN DOP (Hz)						0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	O	O	0_	0_	. 0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF
CLVERSITY NO.	1	1.	1	1	1	1
COMPOSITE RMS FADE		· · · · · · · · · · · · · · · · · · ·		<u> </u>		
IMPULSE NOISE <on></on>	, RANDOM	C).000 dB R	E PEAK DU	TPUT	
FREQUENCY: 0.1000	00E+03 im	eulses/mi	n PULSE	WIDTH: 0	.001000 <u>s</u>	econds
CHANNEL NOISE OFF	POWER 1	N (IBm:	-10.0000	RMS Volta	de: 0.007	746
JAMMING OFF					·	

TEST <u>II-3-/</u>	TYPE - MESSAGE
BW 600 TO 2800 HZ	S/NdB
PATHS/	TRANSLATION O Hz
GROUP I	DOCUMENT
GROUP II	DOCUMENT
GROUP III DATA RATE 4800 bps	DOCUMENT 9-24-81 08:55

1 1 2400 "

9-24-86 09:00

	PATH NUMBER						
					-5-		
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000_	0.0000	
RMS DOF(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DELAY (used)	0	o	0	0	0	0	
SIGNAL (dBm)					-200.00_		
SIGNAL (VRMS)							
SIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF	
DIVERSITY NO.	1	1	1	1	1	1	
COMPOSITE RMS FADE				E DEAK OU	TEUT		
FREQUENCY: 0.1000	OUETUS IM	PU1562/W1	n rulse	MIDIU. A	•001000 S	econds	
CHANNEL NOTSE OFF	, POWER I	N dBm:	-40.0000	RMS Volta	de: 0.007	746	
JOMMING OFF							



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G II I J K L M N O P Q R 5 T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y I ! @ # 3 % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d c f g h i j k l m n o p q r s L u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various lotters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z I 0 # \$ % & \pm () - _ + - : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H T J K T M N O P Q R S T U V W X Y Z 1 0 # S % κ * () = _ + = : , " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () ~ _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % 6 * () - + - : ; " |

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TEST <u>II-B</u>-2

TYPE - PREMESSAGE

BW GOO TO 2800 HZ

 $S/N \sim dB$

PATHS /

TRANSLATION O Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 5,5,5,5

GROUP III S/F DATA RATE 2400

		~				
1						
1	- 1	. 2	3	- 1 -	-5-	-6-
BEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
++MS-10+(Hz)2-sta-			~ 0.0000 -	0.000	0.0000-	-0+000
IDELAY (usec)	0	0	0	0	Q	0
(SIGNAL (dEm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
+SIGNAL—(URMS)	9.7746	0.0000	0.0000	0.0000	0.0000-	0.000
:SIGNAL (ONZOFF)	เมหา	OFF	QFF	OFF	OFF	uFF
DIVERSITY NO.	1	1	1	1.	1	1

!COMPOSITE RMS FADE RATE: 0.00000 Hertz

LIMBULSE NOISE CONA . RANDOM 0.000 HR RE FEAR OUTPUT I FREQUENCY: 0.500000E+03 impulses/min PULSE WITHH: 0.001000 seconds ** HAMMEL NOISE OUF: SOURR LN dum: -40.0000 RMS Unitade: 0.002746

TIMBANTAG OFF

TEST 17-13-2

TYPE - MESSAGE

BW 600 TO 2900 HZ

S/N ___dB

PATHS /

TRANSLATION O Hz

GROUP I

DOCUMENT 69-24-86 69:51

GROUP II

DOCUMENT 09-24-86 09:41

GROUP III DATA RATE 2400 bps DOCUMENT 09-24-56 09:08

; 	PATH NUMBER						
· 	1	-2-	- 3 -	- ·1 -	-5-	-6-	
- -HEAN-DOP-(Hz)	0:0000	0+0000-	0.0000	0.0000	- 0:0000-	- 0 • 0 0 0 0	
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
TIELAY (usec)	0	0	0	0	0	0	
SIGNAL- (dBm)	9,00	-200.00	-200.00	-200.00	-200+00-	-200.00	
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000	
SIGNAL (ON/OFF)	<0.00	OFF	OFF	OFF	OFF	OFF	
HDIVERSITY-NO.					<u>+</u> -	1	

| COMPOSITE RMS FADE RATE: 0.00000 Hertz

TIMPULSE NOISE CONS, RANDOM 0.000 dB RE PEAK OUTPUT | FREQUENCY: 0.500000E+03 impulses/min | PULSE WIDTH: 0.001000 seconds

ICHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

IJAMMING OFF



G 1

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 0 \$ \$ & \$ () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '



HÖMBIYAN SUBDESS CENTER, SUBLODES 3 300 TABLEM ADAD HOMBIYANÎ, PA 15014 ...210 SEF-SERI

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L N N O P Q R S T U V W X Y Z ! E # \$ % & # () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E P G H I J K L M N O P Q R S T U V W X Y Z ! 8 \$ \$ \$ * () - _ + = : ; * *

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g b i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L H H O P Q R S T U V W X Y Z ! 8 1 \$ 2 4 * () - + = : ; " '

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HORSHAM BUSINESS CENTER BUILDING 3 300 WELSH ROAD HORSHAM, PA 19044 (215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d e r g n 1] k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

TEST <u>II-13-3</u>

TYPE - PREMESSAGE

вw <u>600</u> то <u>2800</u> нг

S/N ___dB

PATHS /

TRANSLATION __O_Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 5,5,5,5

GROUP III

	S/F	DATA RATE
1	F	2400
_2		2400
_3		2400
4	_5	2400
_5		2400

1	PATH NUMBER						
!	-1 -	-2-	-3-	- 1	-5-	-6-	
MEAN DOP (Ha)	0,0000_	0.0000_	0.0000	9.0000	0.0000	0,0000	
RMS DOP(Hz)2 sia	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
IDELAY (usec)	0	0	0	0	0	O	
ISIGNAL (dBm)	-6.00	-200.00	-200.00	-200.00	-200.00	-200.00	´ 1
IS IGNAL (VRMS)	0.3882	0.0000	0.0000	0.0000	0.0000	0.0000	
(SIGNAL (ON/OFF)	< 9 N ⊃	OFF	OFF	OFF	OFF	OFF	
IDITERSITY NO.	1.	1	1	1	1.	1	

(COMPOSITE RMS FADE RATE: 0.00000 Hertz

TIMPUUSE NOISE KONST RANDOM . 0.000 dB RE PEAK OUTPUT

: FREQUENCY: 0.500000E+03 impulses/min FULSE WIBTH: 0.001000 seconds

TERARNEL NOISE OFF, FOMER IN ABm: -40.0000 RMS Voltage: 0.007748

LUAMMENG OFF

TEST <u>II-B-3</u>

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N dB

PATHS ____/

TRANSLATION O Hz

GROUP I

DOCUMENT 69-24-86 10:05

GROUP II

LUAMMING UFF

DOCUMENT 08-24-86 09:30

GROUP III DATA RATE 2900 bps DOCUMENT 09-24-86 09:20

	-		-			,			
1		PATH NUMBER							
	-1-	-2-	-3-	- 1	-5-	-6-	-		
IMEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
IRMS DOP(Hz)2 sia	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1		
IDELAY (usec)	0	O	0	O	0	0			
ISIGNAL (dBm)	-6.00	-200.00	-200.00	-200.00	-200.00	-200.00	1		
ISIGNAL (URMS)	0.3882	0.0000	0.0000	0.0000	0.0000_	0,0000	_		
ISIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF	1		
IDIVERSITY NO.	1	1	1.	1	1	1			
1							!		
ICOMPOSITE RMS FADE	RATE:	0.00000	Hertz						
1							,		
LIMPULSE NOISE KON>	, RANDOM	0	0000 dB R	E PEAK OU	ITFUT				
I FREQUENCY: 0.5000	00E±03 im	Pulses/mi	n PULSE	. WIDIH: 0	.001000 s	econds	1		

HOHANNEL NOTSE OFF. FOWER IN dBm: -40.0000 RMS Voltage: 0.007746



DPSHAV BUSINESS CENTER BUILDING 3 300 WELSH RCAD HOFSHAW PA 19044 215) 647 5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 4 \$ % & * () - _ + = : ; " '

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312

HOPEWAY BUSINESS CERTIFF, BURLONG 3 300 MELSH ADAD HOPEWAY PA 1804 2129 467-5200

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L N H O P Q R S T U V W X Y Z ! E + \$ % & * () - _ + * : ;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v v x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C O E P G H I J E L M H O P Q R S T U V W X Y Z ! ! \$ \$ \$ \$ \$ \$ () - _ + = :;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E P G H I J K L M N O P Q R S T U V W X Y Z ! 8 4 \$ 8 4 4 () - + = :;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y -z , . / 1 2 3 4 5 6 7 8 9 0 A 8 C D E F G H I J E L M N O P Q R S T U V W X Y Z ! 8 4 \$ 2 6 7 () - + = : ;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , _ / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J X L M H O P Q R S T U V W X Y Z ! 8 4 \$ 3 6 * () - _ + = : ; " '



FIFE TA INFERMINATION STATEMAS, HOLD MOREMAN BUSINESS CENTER, BUILDING 3

200 WELCH ROAD. HORSHAM, PA 19044 (215) 657-5270

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The following is a list of various lotters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R C T U V W X Y 7 1 6 4 5 8 6 f () = _ 4 - 1, " !

The following is a list of various letters, numbers, and nymholo which can be round on Many typewritors; a b o d e f g h i j k l m n o p q r s t u v w x y z . . / 1 2 3 4 5 6 7 0 0 0 A 8 0 0 0 0 H I J K L M N O P Q R S T u v w x y Z 1 0 # \$ % 6 * () - + - 1; * '

The following is a list of various letters, numbers, and symbols which ten be found on many hypowrhices a n c o e f g h i j k l m n o p q r c t u v u x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ & & * () - _ + = :; " '

The following in a link of memisus leve

TEST <u>I-C-1</u>

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS 2 squal

TRANSLATION O Hz

GROUP I S/F

GROUP II S/F

r				*		
1	PATH NUMBER					
ł	-1-	-2-	-3-	-1-	-5-	-6 -
IMEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOF(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0,0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-3.01	-3.01	-203.01	-203.01	-203.01	-203.01
(SIGNAL (VRMS)	0.5477	0.5477	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)		<0N>- -		. OFF		
IDIVERSITY NO.	1	1	1	1	1	1
1						
HEOMPOSITE-RMS-FADE	RATE	-1 +0000 0 -	Hertz			
1						
IIMPULSE NOISE OFF	PERIODIO	0	.000 dB R	E PEAK OU	TPUT	
+-FREQUENCY: 0.100	000E+02-i	rrylses/m	in FULS	E-WIDTH:	0+000100-	seconds
ł						
ICHANNEL NOISE OFF	, FOWER IN	√ dBm:	-43.0103	RMS Volta	se: 0.005	477
						
IJAMMING OFF						

BW 600 TO 2800 HZ	S/NdB
	3/ NGB
PATHS 2 agrae	TRANSLATION O Hz
GROUP I	DOCUMENT
GROUP II	DOCUMENT
GROUP III DATA RATE 4500 bps (pontial de	JOCUMENT <u>69-23-86</u> 11
2400 life (portial do	curent only) 09-23-86 1111

 	PATH-NUMBER-						
	-1-	-2-	-3-	-4-	-5-	-6-	
IMEAN DOP (Hz)	0.0000	1.0000	0,0000	0.0000	0.0000	0.0000	
 RMS-DOP(Hz)2-sid	-0.000 0-			0.0000	0.0000-	-0-0000	
IDELAY (usec)	0	1000	0	0	0	0	
(SIGNAL (dBm)	-3.01	-3.01	-203.01	-203.01	-203.01	-203.01	
ISIGNAL (VR MS)	-0.5477 -	- 0.5477	0+00 00-	-0+0000-	0+0 000-	-0.0000	
SIGNAL (ON/OFF)	<0N>	< 0.0>	OFF	OFF	OFF	ÓFF	
DIVERSITY NO.	1	1	1	1	1	1	
'COMPOSITE RMS FADE L IMPULSE -NOISEOFF		1.00000			TPUT		
FREQUENCY: 0.1000						seconds	
CHANNEL NOISE OFF	H-RAWO'9-	1-dBm +	-43+0103 F	MS-Volta	se:-0.095	477	
JAMMING OFF							



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start of

The following is a list of various letters, numbers,



鱶

DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3 300 WELSH ROAD HORSHAM, PA 19044 (215) 857-5270 - ·

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TEST II-C-2

4

100

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS 2 3dB diffus

TRANSLATION O Hz

GROUP I S/F 5,5,5,5

GROUP II S/F

FATH NUMBER
-1- -2- -3- -4- -5- -60.0000 1.0000 0.0000 0.0000 0.0000 MEAN DOF (Hz) TRMS DDF(Hz) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 HUELAY (usec) IDIVERSITY NO. 1 1 1 1 I FOUMPOSITE RMS-FADE-RATE: 0.65132-Hertz-TIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT I --- FREQUENCY: 0.100000E+02 impulses/min FULSE WIDTH: 0.000100 -seconds-TCHANNEL NOISE OFF. FOWER IN dBm: -43.6077 RMS Voltage: 0.005113

IJAMMING OFF

TEST II-C-2	TYPE - MESSAGE
BW 600 TO 2800 HZ	S/NdB
PATHS 2 3dB difference	TRANSLATION OHz
GROUP I	DOCUMENT <u>9-23-86</u> 15;19
GROUP II	DOCUMENT
GROUP III DATA RATE bps	DOCUMENT

- PATH NUMBER							
1	-1-	-2-	-3-	-1-	-5-	-6-	
IMEAN DOF (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	
 KMS-DOF(Hz)2-sis		-0+0000 -	0+0000-	0.0000-	0+000-	-0.0000	
IDELAY (usec)	0	1000	0	0	0	C	
ISIGNAL (dBm)	-1.76	-4.76	-203,61	-203.61	-203.61	-203.61	
SIGNAL-(VRMS)	9 + 6322 -	-0.4476	0 + 0 0 0 0	0.0000	- 0.0000-	0.000 0	
SIGNAL (ON/OFF)	< NO >	<0.05	OFF	OFF	OFF	QFF	
DIVERSITY NO.	1.	1	1	1	1	1	

HIMPULSE-NOISE-OFF -- PERIODIC------ 0.000 dB RE PEAK OUTPUT FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

TEHANNEL NOISE OFF + MOWER IN-dBm: -43+6077 RMS Voltage: 0.005113

LJAMMING OFF



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2: Efference for the following to a list of various lefters, unwices, the following to a list of various lefters, unwices,

THE STREET SEEDS TO SEED TO SEED THE SEEDS SEEDS AND SEEDS S

The following is a list of various Letters, numbers, and symbols which can be found on many typewriters: a b c d d i g b l j k l m n o p q r s t b v w m y z , . . / 1 2 1 4 5 6 7 8 9 8 A B C B E F C B I J H L M M O P Q R S T W V X Y Z .

TEST <u>II-C-3</u>

TYPE - PREMESSAGE

ви 600 то 2800 нг

S/N 🥏 dB

PATHS 2 6dt diffuence

TRANSLATION _ O Hz

GROUP I S/F 5,5,5,5

GROUP II S/F

FUMMENG OFF

GROUP III S/F DATA RATE

1 F
3 F
4 F

	FATH NUMBER					-
	- <u>t</u> -	-2-	3 ~	-4-	-5-	-6-
MEAN DOF (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS-DOP(Hz)2-sid		0,0000	0.0000	0.0000	0.0000-	0.0000
DELAY (usec)	()	1000	Û	0	0	0
SIGNAL (dBm)	-0.97	-6.97	-203.98	-203.98	-203.98	-203.98
SIGNAL (URMS)	0.6925	0.3471		-0+0000-	0.000	0
SIGNAL (ON/OFF)	<00>	<0N>	0FF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE	RATE:	0.27380	Hertz		-	
LMPULSE-NOISE-OFF	PERIODIO	S()	000 dB-R	E-PEAK-OU	TPUT-	
FREQUENCY: 0.100	000E+02 in	nPulses/m	in PULS	E WIDTH:	0.000100	seconds
GHANNEL NOTSE OFF	• -POWER IN	គ្រាក្រ:	-43,9835	RMS Unlta	se: 0.004	897

TEST AC-3

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ____ dB

TRANSLATION __O __ HZ

GROUP I

DOCUMENT 09-23-86 15:09

GROUP III DATA RATE 2400 bps deamnt DOCUMENT 09-23-86 11:21



ACPENANT BUSINESS DENTER BULDING 3
SOOWELSH POAG
ACPENANT FA 1904
215) 557 5570

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i 3 k l m n o p q r a t a w w x x x . / 1 2 3 4 5 6 7 8 9 9 A B C B E F G B I J K L M N O P Q R S T U V W X Y Z 1 8 # 5 % * (] - _ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b o d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 8 2 8 4 8 * () - _ + = : : "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i ; k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 9 A B C B E F G H T J R L M N O P Q R S T U V W X Y Z ! 3 * S & S * () - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z : § \$ \$ \$ & * () - _ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 G A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ & & * () - _ + = :; *

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / I 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 4 5 8 6 * () - | + = :; * '



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test

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d f f f f i k l M n n n n n r n t H N w Y H 7 (1 7 7 4 1

TEST 27- C-4

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS 2 9dB difference

TRANSLATION O Hz

GROUP I S/F

I-JAMMING-OFF ----

GROUP II S/F 5,5, F, S, S, F

PATH NUMBER -1- -2- -3- -4--5--6-0.0000 0.0000 -204.76 ! ISIGNAL (URMS) 0.7300 0.2590 0.0000 0.0000 0.0000 (SIGNAL (ON/OFF) <ON> ON> OFF OFF OFF 0.0000 DFF IDIVERSITY NO. --- 1----1----1----1-----1 !COMPOSITE RMS FADE RATE: 0.10793 Hertz TIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds TCHANNEL NOISE OFF, FOWER IN dBm: -44.7642 RMS Voltage: 0.004476

TEST <u>II - C - 4</u> TYPE - MESSAGE S/N ____dB BW 600 TO 2800 HZ PATHS 2 9dB different TRANSLATION ____ Hz DOCUMENT _____ GROUP I

GROUP II

DOCUMENT 69-23-86 11:54

GROUP III DATA RATE 2400 bps DOCUMENT 09-23-86 11.43

			FATH N	UMBER	c =	
MEAN DOP (Hz)	0.0000	1.0000	_	0.0000	_	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY(usec)	o	1000-	0	C	O	
(SIGNAL (dBm)	-0.51	-9.51	-204.76	-204.76	-204.76	-204.76
SIGNAL (VRMS)	0.7300	0.2590	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	< 0N>	 (вв)	OFF-	OFF-	OFF	OF F
DIVERSITY NO.	1	1	1	1	1	1
-GOMPOSITE-RMS FADE	-RATE:	0:10793	Hertz			
IMPULSE NOISE OFF	, PERIODIO	0	.000 dB E	E PEAK OU	TPUT	
FREQUENCY 1-0+100	090E+92-in	rulses/m	in FULS	E WIDTH:-	0.000100-	seconds
CHANNEL NOISE OFF	, POWER IN	l dBm∶ ·	-44.7642	RMS Volta	ge: 0.004	476
AMMING OFF						

1. 23.86 11.54



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b e d TAMPOTON GREER BERKOR CREKE

The Enlinning is a list of recious letters, numbers, and symbols which can be found in many Eypenetters a b c d erestly of a servent and a servent as a serv ************************

the following is a list of estions latters, numbers, and symbols which can be found on many typewriters; a b c d етарізурушы евня вення каго честа PERTARAGE AND ALLED TERRES OF STREET

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a h o d とと 日子なるながくぎー・モニュンドイ

The following is a list of vactors letters, aumbers, and symbols which can be found on many typewellers; a b c 3 effițianopqretavazz. * \$23345 古本 黄素异类亚亚 6 5 - _ 多二分子 7 元十二



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t n v w y y z . . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! Q # 3 % & ^ () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d = f y h i j k l m n n n n n n v w x y z . . / 1 2 3 4 5 6 7 8 9 0 A B C D E F 3 H I J K L M N O P Q K S T U V W X Y Z 1 @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F C H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

TEST <u>II-C-4</u>

TYPE - PREMESSAGE

BW 600 TO 2500 HZ

S/N _ dB

PATHS 3

TRANSLATION __O_Hz

GROUP I S/F 5,5,5,5

GROUP II S/F F,F,F,F

GROUP III

	S/F	DATA RATE
1		2400
2	F	
_ 3	F	
4	<u> </u>	
_5	_F	

<u> </u>			<u> </u>	UMBER		
!	- t -	-2-	- 3	-4-	-5-	-6-
THEAN DUF (Hz)	~ 5.0055	[i.0000	0.5000	0.0000	0.0000	0.0000
IRMS DOF(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	O	1000	500	O	0	0
ISIGNAL (dBm)	-0.98	-9.98	-9.98	-200.98	-200.98	-200.98
ISIGNAL (VRMS)	0.6923	0.2456	0.2456	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<0N>	< NO >	<0N>	OFF	OFF	OFF
IDIVERSITY NO.	1		1	i	1	1
COMPOSITE RMS FADE	RATE:	0.50937 H	lertz			
IMPULSE NOISE OFF FREQUENCY: 0.1000						seconds
ICHANNEL NOISE OFF	POWER IN	dBm: -	-40.9753	RMS Volta	de: 0.006	923
JAMMING OFF						

TEST <u>II-C-4</u> TYPE - MESSAGE BW 600 TO 2800 HZ S/N ____dB TRANSLATION O Hz PATHS ____3 DOCUMENT 9-24-86 11:17 GROUP I DOCUMENT ____ GROUP II GROUP III DATA RATE 2400 bps DOCUMENT 9-24-86 11:07

1	PATH NUMBER						
	=1.	(N	-3-	-4-	-5-	-8-	
IMEAN DOF (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0.0000	
TRMS DOF(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DELAY (usec)	0	1000	500	0	0	0	
ISTGNAL (dBm)	-0.98	-9.0B	-9.98	-200.98	-200.98	-200.98	
(SIGNAL (VRMS)	0.6923	0.2456	0.2456	0.0000	0.0000	0.0000	
GIGNAL (DN/OFF)	כאט־	<no></no>	< 0.015	OFF	OFF	OFF	
UIVERSITY NO.	1	1	1	1	1	1	
COMPOSITE RMS FADE	RATE:	0.50937 1	dertz				
IMPULSE NOISE OFF	, PERIODIO	o .	.000 dB R	E PEAK OU	TPUT		
FREQUENCY: 0.100	000E+02 im	voulses/mi	in PULS	E WIDTH:	0.000100	seconds	
CHAMMEL NOISE OFF	POWER IN	[실문m: -	-40.9753	RMS Volts	de: 0.008	923	

JAMMING OFF



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f q h i j k l m n o p q r s t u v w x y z , . I l 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S F U W M M Y Z l 9 \$ 5 % & * { } - + = : ; *

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a o c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V N X Y Z 1 & f S 3 6 * () - _ + = :; * "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d e f g h i j k l m n o p g r s t u w x y z , . / I Z 3 4 5 6 7 8 9 % A B C D E F G H i J k L m n o p Q R S T U W X Y Z i & # S & F & | | - | + = ; ; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k I m n o p q r s f u v w x y z , . / I 2 3 4 5 6 7 8 9 0 A B C D E F C B I J K L M M C P Q R S T U V W X Y Z ; . & § § § § § § * () - - + = r r * *

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . . / 1 2 3 4 5 6 7 8 9 C A B C D D F G H I J K L M N O P Q R S T U V W N Y Z ! § £ \$ 8 & * t) - _ + = 1; **

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f q h i j k l m n o p q r a t u v w x y z . . / 1 2 3 4 5 6 7 8 9 8 A B C D E F G H I J K L M N O P Q R S T T W W X T Z 1 9 \$ S % S * () - _ + = :; * *

3.2:00 11:07

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A LINE TO A MARK ME INCHINITION OF LIVER LIVE CONTRACTOR OF THE CO

The state of the s Sellening is a list of surloss issues,

man following is a list of surious lutters, numbers, THE TANK THE

Who following is a limit of

TEST 11-C-5

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS 2 12 dB difference

TRANSLATION 6 Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 5,5,5,5

GROUP III S/F DATA RATE

\[\frac{1}{2} \frac{5}{5} \quad \frac{2400}{2400} \]

\[\frac{3}{4} \frac{5}{5} \quad \frac{2400}{2400} \]

\[\frac{5}{5} \frac{5}{5} \quad \frac{2400}{2400} \]

POHAN 'EL NOISE OFF, POWER IN BBm: -44.0493 RMS Voltage: 0.004749

TEST II-C-5

TYPE - MESSAGE

вw 600 то 2800 нz

S/N dB

PATHS 2 12 dB diffuence

TRANSLATION O Hz

GROUP I

DOCUMENT 9-23-86 14.

GROUP II

DOCUMENT 8-23-86 13:

GROUP III DATA RATE 2400_ bps

DOCUMENT 09-23-86 ///4

	PATH NUMBER					
<u> </u>		5		4	5	
IMEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0,0000	0.0000	0.0000
TRELAY-(usec)-		199()	0	- 0	0 -	0
BIGNAL (dBm)	-0.27	-12.27	-204.25	-204.25	-204.25	-204.25
SIGNAL (VRMS)	0.7513	0.1887	0.0000	0.0000	0.0000	0.0000
-SIGNAL (ON/OFF)				BFF-	OFF-	OFF
FOIVERSITY NO.	1.	1	1	1	1	1
1						

TCHANNEL NOISE OFF, FOWER IN BBm: -44.2493 RMS Voltage: 0.004749

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 3 $\frac{3}{7}$ S % & * () + _ + = :; $\frac{7}{7}$

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ * \$ % 5 * () - _ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d = f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ A S % & * () - + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g n i j k l m n o p q r s t u v w x y z , . / I 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 3 ± 5 % & * () - $_{-}$ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x γ z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z l ê \ddagger \$ % & * () - _ + = : ; * '



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The tollowing is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f 9 b 1 3 x I m m o p q r s t u v u x y z , . / 1 2 3 4 5 6 7 8 9 6 A B C D E F G E I J x L M M O P Q R S T B V H X Y Z ! 8 4 5 4 4 4 { } - + = r ; *'

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g c s t c q w x g z , . / 1 2 3 4 5 6 7 8 9 9 A S C D S P S H I J X L H H O P Q E S P S W W X Y Z l # 4 5 2 6 * () - 4 = 1; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e E g b i j k l m a o p q r s t a q x x y z , , / 1 2 3 4 5 6 7 8 9 9 A 8 C B S F G B l J K L M M G P Q R S T G F W X Y Z ; \$ 1 \$ 4 \$ 5 & * { } - _ + = ; ; * '

The following is a list of various letters; numbers, and symbols which can be found on many typewriters; a b e d e f g h i j k l m n o p q c s b u v u v v v v v v l l l l l s s 5 6 7 6 9 0 A B C D E F G E I J X F M E D P Q R S T U V U X Y E l E l S b b b c b c F G E I J X F M E D P Q R S T U V U X Y E l E l S b b b c b c F G E I J X F M E D P Q R S T U V U X Y

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c a

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

⊤;ΤΔ_ F, :

TEST <u>II-C-6</u>

TYPE - PREMESSAGE

вы 600 то 2800 нг

S/N ___dB

PATHS 2 15dB diffumu

TRANSLATION O Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5,5,5,5,

GROUP III S/F DATA RATE

,						
I			ድለተዘ እ	UMBER		
!	-1-	-2-	-3-	- 1 -	-5-	-6-
HMEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000-	-0.0000-
(RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	O	0	0
HSIGNAL—(dBm) — —			200+40	-200:40	200.40-	-200.40
! !SIGNAL (VRMS)	0.7626	0.1356	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	< 0.00 >	< 0 N >	OFF	OFF	OFF	OFF
IDIVERSITY NO		1	1	- 1	- 1-	
1						_
ELCOMPOSITE RMS FADE	RATE:	0.01787	Hertz			

TIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT FREQUENCY: 0.100000E+02 impulses/min PULSE WIRTH: 0.000100 seconds

BUHANNEL NUISE OFF, MOWER IN dBm: -40,4009 RMS Voltage: 0.007397

TEST II-C-6	TYPE - MESSAGE
BW 600 TO 2800 HZ	S/NdB
PATHS 2 15 d8 diffirms	TRANSLATION O Hz
GROUP I	DOCUMENT <u>7-23-86</u> 14:37
GROUP II	DOCUMENT 9-23-86 13:49
GROUP III DATA RATE bps	DOCUMENT

i e		FATH NUMBER					
		-3-	-3-	- A	- 5-		
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
TELAY (usec)		1000	0-		0		
SIGNAL (dBm)	-0.14	-15.14	-200.40	-200.40	-200.40	-200.40	
SIGNAL (VRMS)	0.7626	0.1356	0.0000	0.0000	0.0000	0.0000	
SIGNAL (ON/OFF)		<0N>	0FF	Ock -			
DIVERSITY NO.	1	1	1	1	1	1	
COMPOSITE RMS FADE IMPULSE NOISE OFF				E PEAK OU	TFUT		
FREQUENCY !-0 - 100	000E+02-in	mpulses/m	in FULS	E WIDTH:	0.000100-	s econds-	
CHANNEL NOISE OFF	• POWER IN	(dBm: -	-40.4009	RMS Volta	se: 0.007	397	
JAMMING OFF							



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 2 \$ \$ \$ & * () - _ + = :; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

7.23.60 3:49



DELTA SHEORIMATION SYSTEMS, SNC.

SO TELSHOOD HORSONL PA NOW CTS SE SE

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G E I J E L N N O P Q R S T U V N X Y Z ! 8 4 \$ 4 6 2 4 } - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t d w w x y z , . / l 2 3 4 5 6 7 8 9 9 A B C D E F G E I J X L M N O P Q R S T B W M X Y Z ! E # \$ 1 & 1 & 1 ; "'

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d e f g h i j k l m n o p q r s t u y w x y z , . / 1 2 3 4 5 5 7 8 9 8 A 8 C B E P G H I J K L H H U P Q R S T U W X Y Z ; 8 4 \$ 8 E * { } - _ + = ; 4 '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m m o p q r s t w v w x y z , . / 1 2 3 4 5 6 7 8 9 6 A B C 0 E F G B I J K L M M O P Q R S T U V W X Y Z ! E # \$ & \$ * { } - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q t s t u v u x y z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G E I J K L N N O P Q R S T B V W X Y Z ! 0 4 5 6 6 4 () - + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST <u>II-C-7</u>

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ___ dB

PATHS 2 18dB define

TRANSLATION O Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F 5, 5, 5, 5, 5

DELAY (Usec)	r						-
IMEAN-DOF (Hz)	ŧ			FATH N	UMBER		
TRMS DOF(Hz)2 sid	!	-1-	-2-	-3-	- 4	-5-	-6-
UELAY (USec)	IMEAN-DOF -(Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0-0000-
SIGNAL (dBm)	(RMS DOF(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (VRMS)	(Usec)	0	1000	0	O	0	0
ISIGNAL (ON/OFF) <on> <on> OFF OFF OFF OFF OFF OFF OFF OFF OFF OF</on></on>	ISIGNAL (dBm)	-0.07	-18.07	-200.47	-200.47	-200.47	-200.47
IDIVERSITY NO. 1 1 1 1 1	ISIGNAL (VRMS)	0.7685	0.0968	0.0000	0.0000	0.0000	0.0000
	ISIGNAL (ON/OFF)	⊲אס⊳	<no>></no>	OFF	, OFF	OFF	OFF
COMPORTIE DWC CARE DATE! A AAREZ Hast-	DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE KMS FADE KATE: 0.00708 HEREZ	COMPOSITE RMS FADE	RATE:	0.00756	Hertz			
	FREQUENCY: 0.100	000E+02 i	meulses/m	in PULS	E WIDTH:	0.000100	seconds

ICHANNEL NOISE OFF, FOWER IN dBm: -40.4692 RMS Voltage: 0.007339

HIAMMENG-OFF------

TEST <u>7-C-7</u>	TYPE - MESSAGE
вы 600 то 2800 нг	S/NdB
PATHS 2 18 dB difference	TRANSLATIONHz
GROUP I	DOCUMENT <u>09-23-86</u> 14:13
GROUP II	DOCUMENT <u>69-123-86</u> 1411
GROUP III DATA RATE bps	DOCUMENT

1			FATH N	UMBER		
<u> </u>	1	- 2 -	-3-	- A -	~5~ ~	
IMEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HIELAY(usec)		1000	0-	0-		
SIGNAL (dBm)	-0.07	-18.07	-200.47	-200.47	-200.47	-200.47
SIGNAL (VRMS)	0.7685	0.0968	0.0000	0.0000	0.0000	0,0000
-SIGNAL (ON/OFF)	(0N)	<0 N>	OFF	OFF	OFF-	OFF
DIVERSITY NO.	1	1	1	1	1	1
- U OMPOSITERMS-FADE	-RATE!	-0:00756-	Hertz			<u>-</u>
IMPULSE NOISE OFF	, PERIODIO	0	.000 dB R	E PEAK OU	TPUT	
FREQUENCY:0+100	900E+92-in	neulses/m	in FULS	E MIDIH:	0.000100-	seconds
CHANNEL MOISE OFF	POWER IN	/ ់ា្រាដ	-40.4692	RMS Volta	de: 0.007	339
JAMMING OFF				—		

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HORSHAM BUSINESS CENTER BUILDING 3 300 WELSH ROAD HORSHAM PA 19044 215: 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 2 \$ \$ & \$ () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

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I.



DELTA INFORMATION SYSTEMS, INC. NORMAL SUBJECT CHARGE STATEMENT STATEMENT OF THE STA

STATES AND COMPANY OF COMPANY OF

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 9 A 8 C D E F G R I J X L N N O P Q R S T U V W X Y Z ! # \$ \$ 6 * () - 4 = 1 ; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 9 A 8 C D E F G B I J K L M M O P Q R S T U V W X Y Z ! 8 4 \$ 1 6 4 { } - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g b i j k l m n o p q r s t u v w x y z . . / 1 2 3 4 5 6 7 8 9 0 a B C D E F G B I J K L M B O P Q R S T U V W X T 2 ! 8 4 \$ 1 & * { } - _ + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k I m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J X L N N O P Q R S T U V W X Y 2 ! 2 ! \$ \$ \$ \$ \$ \$ \$ \$ () - _ + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m a o p q r s t u v w x y z , . / 1 2 3 4 S 6 7 % 9 % A B C D E F G H I J K L M M O P Q R S T U V W X Y Z ! # \$ \$ \$ 6 * () - _ + = ; ; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c d

TEST <u>II-C-99</u>

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS 3

TRANSLATION _ O Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 5,5,5,f,f

			 FATH N	HMDE .		· - - · - ·
:	-!-	m	- 3		<u> - 5</u>	- 6
IMEAN DOF (Ha)	6.0000	1.0000	0.5000	e.39 00	0.0000	0.0
RMS DOF(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0
(DELAY (Usec)	0	1000	500	0	0	
· VISMAL (ABm)	-0.52	-12.52	-12.52	-202.01	-202.01	-20:
IBIGHAL (URMS)	0.7299	0.1933	0.1833	0.0000	0,0000	0.
BIGMAL (UN/OFF)	0N:	UNT	UN	() F c	QF F	
DOUERSITY NO.	1	1	1	1	1	
COMPOSITE RMS FADE	RATE:	0.50169	Hertz			
CONTINUE MOTSE OFF						
1 ** PODE M Y: 0.100	100E±02 1	nrylan Am	th PULS	E WIETH:	0.000100	3 00 0
FAN BEIRN JAMMAN	· HOMER IN	4 ்∃∃ை ்	- 400 + 00 A	KMS Jolts	ae: 0.008	148
Ruhiso are						

TEST <u>II-C-89</u>

TYPE - MESSAGE

BW 600 TO 2 800 HZ

S/N ____dB

PATHS 3

TRANSLATION _ O _ H:

GROUP I

DOCUMENT 09-24-84

GROUP II

DOCUMENT 59-24-86

GROUP III DATA RATE 2400 bps DOCUMENT 07-24-86

			T PATH N	IUMBER		
1	-1	-2-	-3-	- 4 -	-5-	-
IMEAN DOF (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0
TRMS TOOP(HE)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0
IDELAY (usec)	0	1000	500	0	0	
ISIGNAL (dBm)	-0.52	-12.52	-12,52	-202.01	-202.01	-2(
ISIGNAL (VRMS)	0.7299	0.1833	0.1833	0.0000	0.0000	Ö
ISTGNAL (ON/OFF)	<00>>	ี CMD	. DN	OFF	OFF	
IDIVERSITY NO.	1		1	1	1	

| COMPOSITE RMS FADE RATE: 0.50169 Hertz

TIMPULSE NOISE OFF. PERIODIC 0.000 OF RE PEAN OUTPUT

FREQUENCY: 0.100000E+02 impulses/min FULSE WIDTH: 0.000100 sec

THANNEL NUISE UPF. POWER IN THE: -12.0064 RMS Voltage: 0.006148

COMMENG USE



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HORRES CENTER BUILDING 3 300 WELSH ROAD HORRESHAM FA 19044 (215) 657 5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 6 7 8 9 C A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ \$ \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 \$ \$ \$ 6 * () - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ f S % S * () - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c e f y h i j k l m n o p g c s t u y w x y 2 , . / 1 2 3 4 6 7 8 9 8 A B C D S P G N I J Z b N N O P Q E S T G T M X Z l f f f f f f f f f = f = 1; f f

The following is a list of various letters, numbers, and symbols which can be found on many typewriters; a b c e t q b i j k l m m o p q r s k a r w a r s , . / l 2 3 < 6 ? 8 % 6 a 8 C o s r G f i J K S M N O P Q R S T B Y W X X 1 (8 4 5 8 8 % () - _ + = : ; *)

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c = f = f ; k l a a o p q r s t u u u y z , . | f l 2 l . | f l 3 l . | f l 3 l . | f l 2 l . | f l 2 l . | f l 2 l . | f l 2 l . | f l 2 l . | f l 2 l . | f l 2 l . | f l 3 l . | f l 3 l . | f l 3 l . | f l 3 l . | f l 3 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4 l . | f l 4

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b o

A

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

-

TITAL P. 1

TEST <u>II-D-/</u>

TYPE - PREMESSAGE

BW Gov TO 2800 HZ

S/N ___dB

PATHS /

TRANSLATION _ Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 7,5,5,5

LUMMING OFF

GROUP III S/F DATA RATE

1 F
3 F
4 F
5 F

	FATH NUMBER					
•	-1-	-2-	-3-	-4-	-5-	-6-
IMEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.00
RMS DOP(Hz)2 sid	1.0000	0.0000	0.0000	0.0000	0.0000	0.00
IDELAY (usec)	O	Ò	9	0	0	
SIGNAL (dBm)	0.00	-200,00	~200.00	-200.00	-200.00	-200.
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.00
SIGNAL (ON/OFF)	(NO)	OFF	OFF	OFF	OFF	C
DIVERSITY NO.	1	1	1	1	1_	
COMPOSITE RMS FADE	RATE:	0.00000	Hertz			
IMPULSE NOISE OFF FREQUENCY: 0.100						second
L ICHANNEL NOISE OFF	, POWER I	N dBm:	-40.0000	RMS Volta	se: 0.007	746

TEST <u>II-D-/</u> TYPE - MESSAGE BW 600 TO 2800 'HZ S/N dB PATHS / TRANSLATION O Hz DOCUMENT 09-24-86 10: GROUP I DOCUMENT 08-24-86 10%. GROUP II GROUP III DATA RATE 2400 bps DOCUMENT 09-24-86 10.5

COMPOSITE RMS FADE RATE: 0.00000 Hertz

TIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 second

1

FIRHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746



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-CRSHAM BUS NESS CENTER BU LOING 3 500 WELSH POAD -CRSHAM PA 19044 215: 557:5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g n i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 3 4 5 % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 3 \$ \$ & \$ * () - + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 0 # S % & * () - + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & # () - _ + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 8 \$ \$ & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

707AL P. 1



DELTA INFORMATION SYSTEMS, INC.

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(2) 47.574

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The following is a list of various letters, numbers, and symbols which can be found on many typescitation by a graph of the property of the pr

and symbols which can be found on many typewriters: a b c d
e f g b i j k l m n o p g c s t u r w x y z - / 1 / 2 1 4 5
6 7 8 9 0 A B C D B F G B I J R L N B G R S T U Y W X Y Z
7 1 8 1 \$ 1 8 4 () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on any renewriters. X 2 2 2 2 2 5 6 7 8 9 0 A B C D E F G H I J X L M M O P Q R S T U V M X Y S ! 2 1 3 2 4 7 () - 7 = 1;

The following is a list of various-lecters numbers and symbols which can be found on many typesritary, a bad

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DELTA INFORMATION SYSTEMS INC HOUSEMAN BUSINESS CHANGE BUSINESS

200 MELEW ROAD HORSHAM PA 19044 (215) 857 5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c a e f g h i j k l m n o p q r s t u v w x y z , $\frac{1}{2} \frac{1}{4} \frac{2}{4} \frac{3}{4} \frac{4}{4} \frac{1}{4} \frac{1}{$

and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . /1 2 3 4 : 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :;

The following is a list of various lotters, numbers, and symbols which can be found on many typewriters, a hold efghijklmnopgrstuvwxyz,./1234:67890ABCDEFGHIJKLMNOPORSTHVWYVZ1@#\$\$&*()-_+=:;"

and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 ! 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 2 # \$ % £ * () - + = : : " '

The following is a list of various letters, numbers and sympols which can be found on many typowritors, a besides

T3TAL P. 1

TEST I-E-I

TYPE - PREMESSAGE

В 600 ТО 2800 Н2

S/N ___ dB

PATHS /

TRANSLATION - 25 Hz

GROUP I S/F

GROUP II S/F 5,F,S,F,F

	· · · · · ·	PATH NUMBER				
	- 1 -	~ ,` ~		- 1 -	= ^e ., ~	-6-
MEAN DOP (112)	-75.0000	0.0000	0.0000	0.0000	0.0000	0.000
+ MS-DOP(Hz)2-sid			0+9990-		0.0000-	0+000
DELAY (usec)	C	O	()	0	0	
SIGNAL (dBm)	0,00	-200.00	-200.00	-200.00	-200.00	-200.0
STANAL-(VRMS)	0.7746	0,9000	0.0000	0.0000	0.0000-	0+00(
SIGNAL (QN/QFF)	< ON⊅	UFF	OFF	OFF	0F.E	OF
DIVERSITY NO.	1	1.	1	1	1	
COMPOSITE RMS FA				F PEAK OU	ITEUT	
FREQUENCY: 0.1						seconds
HANNEL-NOISE0	FF PUWER-II	N-dBm+	-40.0000	RMS-Volta	ae: 0.003	7746
JAMMING OFF						

TEST <u>II-E-1</u>	TYPE - MESSAGE
BW 600 TO 2800 HZ	S/N <u> </u>
PATHS	TRANSLATION -75 Hz
GROUP I	DOCUMENT
GROUP II	DOCUMENT <u>69-23-86</u>
GROUP III DATA RATE bps	DOCUMENT
	н мимвен
-123-	-4G 5-
-123- MEAN DOF (Hz) -75,000 0.000 0.000	-456- 00 - 0.0000 - 0.0000 0.0000 00 0.0000 0.0000 0.0000
-123- MEAN DOP (Hz) -75+0000 0.0000 0.0000 EMS DOP(Hz)2 sis 0.0000 0.0000 0.0000 DELAY (usec) 0 0 316NAL (dRm)	-456- 00 - 0.0000 - 0.0000 0.0000 0 0 0 0 0 0 0 0 0 0 0 0 0
-123- MEAN DOP (Hz) -75.0000 0.0000 0.0000 MMS DOP(Hz)2 sis 0.0000 0.0000 0.0000 DELAY (usec) 0 0 SIGNAL (dRm) 0.00 -200.00 -200.00 SIGNAL (VRMS) 0.7746 0.0000 0.000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
-123- MEAN DOP (Hz) -75,0000 0.0000 0.0000 EMS DOP(Hz)2 sis 0.0000 0.0000 0.0000 BELAY (Usec) 0 0 SIGNAL (GRm) 0.00 -200.00 -200.00 SIGNAL (VRMS) 0.7746 0.0000 0.0000 SIGNAL (ON/OFF) NON OFF OF	-456- 00 - 0.0000 - 0.0000 0.0000 0 0 0 0 0 0 0 0 0 -200.00 -200.00 -200.00 0 0 0.0000 0.0000 0 0 0.0000 0.0000
#EAN DOP (Hz) -75.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	-456- 00 - 0.0000 - 0.0000 0.0000 0 0 0 0 0 0 0 0 0 -200.00 -200.00 -200.00 0 0 0.0000 0.0000 0 0 0.0000 0.0000
-123- MEAN DOP (Hz) -75,0000 0.0000 0.0000 MMS DOP(Hz)2 sis 0.0000 0.0000 0.0000 DELAY (Usec) 0 0 SIGNAL (GRm) - 0.00 -200.00 -200.00 SIGNAL (VRMS) 0.7746 0.0000 0.0000 SIGNAL (ON/OFF) OFF OF DIVERSITY NO. 1 1 COMPOSITE RMS FADE RATE: 0.00000 Hertz	-456- 00 - 0.0000 - 0.0000 0.0000 00 0.0000 0.0000 0.0000 0 0 0 0
######################################	-454- 00 - 0.0000 - 0.0000 0.0000 00 0.0000 0.0000 0.0000 0 0 0 0



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and opening about our be transfer as any importance of a first line of the source of

The following is a list of various defices numbers,

TEST II-E-2

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N 🥯 dB

PATHS /

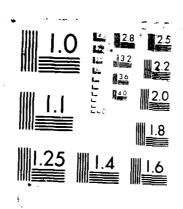
TRANSLATION 75 Hz

GROUP I S/F 5,5,5,5

GROUP II S/F S, f, f, f, f

	FATH NUMBER							
1	- 1	- 2	- X -	:= 1	- 5,	5		
THEAN DOF (Hz)	25.0000	0.0000	0.0000	0.0000	6.9900	0.0002		
:RMS DOP(Hz)2 513	0.0000	0,0000	0.7000	0.0000	9.9090	0.0000		
HHELAY(usec)	()	· Q .	. ()	Q	θ=	0		
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00		
(SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000		
IRIGNAL CONVOEED	cnn.	OFF	ÜEE	0 F F	OFF-	OFF		
IDIVERSITY NO.	1	1.	1	1	1	1		
1								
LOUMEDSITE RMS - FADE-	RATE:	0.000000	Hertz		· · · · · · · · · · · · · · · · · · ·			
1								
ITMPULSE NOISE OFF	PERIODI	ϵ	.000 dB R	E PEAR OL	ITEUT			
: FREQUENCY: .0.1000	000E402 i	maulses/m	an PHIS	E មារប្រភេះ	0.000100.	seconds		
WHAMNEL HOUSE OFF.	ត្តបារា <u>ត</u> ស្ [H -: Bm:	40,0000	RMS Volta	de: 0.007	740		
· · indeleg OFF								

2/2 UNCLASSIFIED F/G 25/2 END II 88



;	PATH NUMBER					
	-1-	-2-	-3-	- 4 -	-5-	-6-
IMEAN DOP (Hz)	75.0000	0.0000	0.0000	0.0000	0.0000-	0+0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	O	()	0	0	0	0
ISIGNAL (dBm)	0-0-	200.00-	200.00	-200+00-	200.0 0 -	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<0.0>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO				1	1 -	1_
1						
ICOMPOSITE RMS FADE	RATE:	0.00000	Hertz			
AND DE MOTOR OFF	DESTRUCTION TO			- DEAR OU		
TIMPULSE NOTSE OFF						_
+ FREQUENCY: 0.100	000E+02 1	mpulses/m	in FULSE	F MITH:	0.000100	seconds
						
TOHANNEL NOISE OFF	, POWER 1	N dBm:	-40.0000 F	RMS Volta	de: 0.007	7746
1						
LARMING DES.						



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H J J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % 6 * () - _ + * : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 2 # \$ % & * () - _ + = :; " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () + _ + = : ;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ \$ \$ % & * () - _ + * : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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THE PROJECT OF AN ALVANDED AND ADMINISTRA The system of the contract of TEST I-E-3

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS /

TRANSLATION -32 Hz

GROUP I S/F

GROUP II S/F 5,5,5,5,5

DATA RATE S/F GROUP III

						1	
FATH NUMBER							
-1-	<u></u> -	-3-	-4-	-5-	-6-		
-32.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	(
O	0	0	0	0	0	:	
0.00	-200.00	-200.00	-200.00	-200.00	-200.00	!	
0.7746	0.0000	0.0000	0.0000	0.0000	0.0000		
<00>	OFF	OFF	OFF	OFF	OFF	!	
1.	1	1	1	1	1		
	-32,0000 0.0000 0 0.000 0.7746	-32.0000 0.0000 0.0000 0.0000 0 0 0.000 -200.00 0.7746 0.0000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	

| COMPOSITE RMS FADE RATE: 0.00000 Hertz

TIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT + FREQUENCY: 0.100000E+02 impulses/min PULSE NIDTH: 0.000100 seconds

ICHANNEL NOISE OFF, FOWER IN dBm: -40.0000 RMS Voltage: 0.007746

FIAMMING OFF

TEST <u>I-E</u>

TYPE - MESSAGE

вw <u>600</u> то <u>2800</u> нг

S/N _ dB

PATHS /

TRANSLATION - 32 Hz

GROUP I

DOCUMENT

GROUP II

JANNING OFF

DOCUMENT 69-23-86 16:12

GROUP III DATA RATE 4800 bps DOCUMENT 69-23-86 17:

	PATH NUMBER					
	<u>J</u>	-2-	-3-	4	-5-	-6-
MEAN DOF (Hz)	-32.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	่⊲ทอ	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FAD	E RATE:	0.00000	Hertz			
IMPULSE NOISE OF	F. PERIODI	c o	.000 dB R	E PEAK OU	TPUT	
		/_	4 m. 120111 C.	E SITTITU!	0.000100	cocoode



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y 2 , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z I 8 4 \$ 8 6 4 (, - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E P G B I J X L M N O P Q R S T U V W X Y Z ! 8 1 \$ 2 6 * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A 8 C D E F G H I J K L M H O P Q R S T U V W X Y 3 ! 8 4 \$ 1 6 * () -- +=:; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 8 4 \$ 4 5 4 () - _ + = :;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M H O P Q R S T U V W X Y Z ! @ # \$ % 6 * () - + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / l 2 3 4 5 6 7 8 9 0 A R C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () ~ _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 @ # \$ % & * () - _ + = :; "'

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z l @ # S % & * () - _ + * :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TEST $\mathbb{Z}^{-\mathcal{E}^{-\mathcal{Y}}}$

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N odB

PATHS /

TRANSLATION 16 Hz

GROUP I S/F

GROUP II S/F 9,5,5,5,5

GROUP III

	S/F	DATA RATE
1	_5	4800
2	5	4800
3	_5	4800
4	<u> </u>	4800
5	5	4800

·		FATH NUMBER						
'	-1:-	-2-		-4-	-5-	-6-		
MEAN DOF (Hz)								
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
DELAY (usec)	0			0	0	0		
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00		
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000		
SIGNAL (ON/OFF)	<0N>	OFF.	OFF	OFF	OFF	OFF		
DIVERSITY NO.	1	i	1	1	1	1		
COMPOSITE RMS FA	DE RATE:	0.00000	Hertz	•		المستقدمة		
IMPULSE NOISE O	FF, PERIODI	0	.000 dB A	E PEAK OL	ITFUT			
FREQUENCY: 0.1	00000E+02 i	mrulses/m	in FULS	E WIDTH:	0.000100	seconds		
<u> </u>		····	. *****					
CHANNEL NOISE O	FF, POWER I	N dBm:	-40.0000	RMS Volta	de: 0.007	746		
JAMMING OFF	-							

TEST I-E-4 TYPE - MESSAGE S/N = dBBW 600 TO 2800 HZ TRANSLATION // Hz PATHS __/ DOCUMENT ____ GROUP I DOCUMENT 09-23-86 /6:23 GROUP II

GROUP III DATA RATE 4800 bps DOCUMENT 08-23-86

							1	
· · · · · · · · · · · · · · · · · · ·	PATH NUMBER							
1	- 1	-2-	- 3 -	- 4 -	-5-	-6-		
IMEAN DOP (Hz)	16.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
IRMS DOF(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
IDELAY (usec)	0	0	0	0	0	0	1	
(SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00	1	
ISTONAL (VEMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000		
ISIGNAL (ON/OFF)	<0N>>	OFF	OFF	OFF	OFF	OFF	9	
IDIVERSITY NO.	1	1	1	1	1	1		
į.							}	
TOUMPOSITE RMS FADI	E RATE:	0.00000	Hertz				1	
!							1	
TIMPULSE NOISE OFF	F. PERIODI	C 0	9 4P 000.	E PEAK DU	TPUT)	
H FREQUENCY: 0.100	0000E+02 i	mpulses/m	in FULS	E WIDTH:	0.000100	seconds	!	
1								
ICHANNEL NOISE OFF	POWER I	N dBm:	-40.0000	RMS Volta	se: 0.007	746	į	
1							1	
LUAMMING OFF							_ !	
								



DELTA INFORMATION SYSTEMS, INC HORSHAM BUSINESS COMER, BUILDING 3 300 WELSH ROMO

309 WELSH ROAD HORSANA, Pa. 19944 (219, 857-529)

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a c c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D B P G B I J K L M N O P Q R S T O V W X Y Z ! E 4 \$ % * () - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g b i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z I 8 \$ \$ 6 ± () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E P G B I J K L M N O P Q R S T U V W X Y Z ! 8 \$ \$ 6 * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 ? 3 4 5 6 7 8 9 0 A B C D E P G H I J K L M M O P Q R S T U V W X Y Z ! 8 \$ \$ \$ \$ * () - + = : ;

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 8 4 \$ 8 6 * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A 8 C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 8 4 \$ 3 & * () - + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - + = :; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

TEST II-E-5

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N ____dB

PATHS _____

TRANSLATION ___ 7 Hz

GROUP I S/F

GROUP II S/F 5,5,5,5

GROUP III

	S/F	DATA RATE
1_	5	4700
2	5	4800
3	5	4800
4	_ \$	4500
5_	<i>_</i> 5	48 00

	PATH NUMBER					
	-1-	- 2 -	- 3	- 4 -	-5-	-6-
MEAN DOP (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOF(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	UFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE	RATE:	0.00000	Hertz		-	
IMPULSE NOISE OFF		=				

TEST 11-E-5

TYPE - MESSAGE

BW 600 TO 2500 HZ

S/N oo dB

PATHS /

TRANSLATION 7 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 69-23-86 /6:33

GROUP III DATA RATE 4800 bps

DOCUMENT <u>09-23-86</u> 16:43

1							1
			FATH N	UMBER			į
1	-1-	-2-	-3-	-4-	-5-	-6-	1
IMEAN DOF (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000	!
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1
IDELAY (usec)	0	0	0	0	0	0	t
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00	1
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000	- !
ISIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF	1
IDIVERSITY NO.	1	1	1	1_	1	1	į

| 1COMPOSITE RMS FADE RATE: 0.00000 Hertz

TIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

ICHANNEL NOISE OFF, FOWER IN dem: -40.0000 RMS Voltage: 0.007746

IJAMMING OFF



HORSHAM BASINESS COMER, BLALCING 3 500 WELSH ROND HORSHAM, PA 1904 219 BB 5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z I 8 4 \$ 4 4 4 () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 8 \$ \$ \$ \$ \$ () - _ + = :; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A 8 C D E P G B I J X L N N O P Q R S T U V W X Y z ! 8 \$ \$ & * () - + = : ; * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g b i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y 2 1 8 4 \$ 8 6 4 () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E P G H I J K L M N O P Q R S T U V W X Y Z ! # \$ % % * () - _ + = :; " '



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL F. :

TEST II-E-6

TYPE - PREMESSAGE

ви <u>600</u> то <u>2800</u> нг

S/N 🗝 dB

PATHS /

TRANSLATION +10 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1		4800
2	_5	4800
3	_5	MEM
4		- NSM
5		NOM

<u> </u>	FATH NUMBER					
	-1-	~2-	-3~	-4-	-5-	-6-
IMEAN DOP (Hz)	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<หอ>>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	i	1	1	1	1
1						
COMPOSITE RMS FADE	RATE:	0.00000	Hertz			
l .						
IMPULSE NOISE OFF	, PERIODI	C 0	.000 dB R	E PEAK QU	TPUT	
FREQUENCY: 0.100	000E+02 i	meulses/m	in FULS	E WIDTH:	0.000100	seconds
1						
CHANNEL NOISE OFF	POWER II	N dBm:	-40.0000	RMS Volta	de: 0.007	746
t						
JAMMING OFF						

TEST II-E-4 TYPE - MESSAGE BW 600 TO 2500 HZ S/N ___dB TRANSLATION /O Hz PATHS __/ DOCUMENT ____ GROUP I DOCUMENT ____ GROUP II

GROUP III DATA RATE 4500 bps DOCUMENT 09-23-86

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0,0000	0.0000	0.0000	0.0000	0.0000	0.0000
OELAY (usec)	0	()	0	Q	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
BIGNAL (ON/OFF)	<0N>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE IMPULSE NOISE OFF FREQUENCY: 0.1000	, PERIODI	<u>c</u> 0	.000 dB R			seconds
MANNEL NOISE OFF	, POWER I	N dBm:	-40.0000	RMS Volta	⊴e: 0.007	746



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; "'

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TEST III - C -1

BW 600 TO 2800 HZ

S/N # dB

TYPE - PREMESSAGE

PATHS Z

TRANSLATION _ 7 Hz

GROUP I S/F 5, 5, 5, 5, 5

GROUP II S/F 5,5,5,5,5

TMEAN BOP (Hz) 7.0000 8.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 -0.43 -12.43 -200.43 -200.43 -200.43 -200.43ISIGNAL (dEm) ISIGNAL (VRMS) 0.7376 0.1853 0.0000 0.0000 0.0000 0.0000 OFF OFF------OFF--1 1 1 1 IDIVERSITY NO. 1 1 HOOMPOSITE RMS-FADE-RATE:---0:06822-Hertz----IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT : --FREQHENCY: 0:100000E+02 immulses/min PULSE WIDTH: 0:000100-seconds-*CHARNEL NOISE KOND, FOWER IN dBm: -14.4254 RMS Voltade: 0.147166 IJAMMING OFF

1.			PATH N	UMBER		
1	-1-	-2-	-3-	-4-	-5-	-6-
IMEAN DOP (HE)	7.0000	8.0000	0.0000	0.0000	0.0000 -	
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
FSIGNAL(dBm)	0:43	-12.43	-200.43	-200.43	-200.43-	-200+43-
ISIGNAL (VRMS)				0.0000		
ISIGNAL (ON/OFF)	<0N>	<0N>	OFF	OFF	OFF	OFF
IDIVERSITY-NO			1	1	1	 -
 COMPOSITE RMS FADE	RATE:	0.06822 H	Hertz			
IIMPULSE NOISE OFF						
FREQUENCY: 0.100	000E+02 im	pulses/mi	.rı PULSI	E WIDTH:	9.000100	seconds
CHANNEL NOISE <0N>	, POWER IN	! d∄m: −	14,4254	RMS Volta	de: 0.1471	166
HUAMMING OFF						



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n c p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 # \$ % & * () - _ + = :; "

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PERSONAL PR. 15044 (215) 857-9278

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f q b i j k l m m p p q r s t u v w x y s , . / 1 2 3 4 5 6 ? 8 9 6 % B C D E F G E I J E L M M D P Q R S T U V W X Y S ; 8 1 5 8 8 6 8 6 7 8 9 9 9 8 8 T U V W X Y



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TYPE - PREMESSAGE
19.5
S/N +2 dB

TRANSLATION /6 Hz

GROUP II S/F 5,5,5,5

			FATH N	UMBER	·	
1	-1-	-2-	-3-	-4-	-5-	-6-
IMEAN DOP (HE)	15.0000	17.0000	0.0000	0.0000	0.0000	0.0000
FRMS-BBP(Hz)2-sis-	0,0000	0,0000	0.0000	0.0000	0.0000-	-0.000
(DELAY (usec)	O	1000	Ĝ.	0	9	0
ISIGNAL (dBm)	-0.66	-10.36	-201.08	-201.08	-201.08	-201.08
+SIGNAL-(VRMS)	0+7162-	- 0:2271·	0.0000	-9.0000-	0.0009-	0+0000
(SIGNAL (ON/OFF)	<00>	<0N>	OFF	OFF	0 . F.F	OFF
IDIVERSITY NO.	1	1	1	1	1	1
,						
ICOMPOSITE RMS FADI	E RATE:	0.12303	Hertz			
1						
LIMPULSE NOISE - OF	F,-PERIODI	C (),000 db R	E PEAK OU	TPUT	
+ FREQUENCY: 0.100	0000E+02 i	meulses/m	iin PULS	E WIDTH:	0.000100	seconds
1						
ECHANNEL MOISE CONT	FOWER I	N dBm:	-12.6562	RMS Polta	de: 0.180	413
1						
LJAMMING DEF						

TEST $\frac{10}{10}$ - C - 2 800 Hz $\frac{1}{2}$ $\frac{1}{2$

GROUP III DATA RATE 2400 bps DOCUMENT 9-24-85 14:33



F DMCLOUNG BALLERCY CONCERNATION OF THE PROPERTY CONCERNATION OF THE PROPE

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A 3 C D E F G H I J K L M N O P Q R S T U V W X Y Z ! 3 \$ \$ 8 \$ * () + _ + = :; "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / l 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z i 3 \pm S % \pm * () - \pm + \pm : ; **

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The lossowing is a list of various vetters, numbers, and symbols which can be found on many hyperciters: a b c d e i g d i j l a a a p q r s t p y w x y s , . / l 2 3 4 3 % 1 3 9 % 3 8 0 8 8 8 0 8 2 2 2 2 8 8 0 8 0 8 8 7 8 2 8 7 8



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The following is a list of various letters, numbers, and symbols which can be found on many typewritors, a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 0 # \$ % L * () _ ! - . , * '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () ~ _ + * : ; " '

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BW 600 TO 2800 HZ

19.5 S/N <u>+2</u> dB

TYPE - PREMESSAGE

PATHS _____

TRANSLATION /6 Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F 5,5,5,5

	PATH NUMBER					
	-1-	-2-	- 3 -	- 1 -	-5-	
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (USec)		1000-	0-	0-		
SIGNAL (dBm)	-0.66	-10.65	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
	<0N>	<0 N >-	OFF	OFF	OFF -	
DIVERSITY NO.	1	1	1	1.	1	1
-CUMPOSITE RMS-FAD	E-RATE:-	0:12303	Hertz		·	
IMPULSE NOISE KON						
FREQUENCY: 0.500	000E+03 im	nulses/mi	n fULSE	MIGLH: 0	.001000 s	econd s
CHANNEL MOISE - ON	POWER I	N dBm:	-12.6562	RMS Volta	de: 0.180	413
JAMMING OFF						

TYPE - MESSAGE

BW 600 TO 2900 HZ

S/N /2 dB

PATHS 2

TRANSLATION /6 Hz

GROUP I

DOCUMENT 9-24-86 15:01

GROUP II

DOCUMENT 9-24-86 15:18

GROUP III DATA RATE 2400 bps DOCUMENT 9-24-86 15:34

		PATH NUMBER						
	-1-	-2-	-3-	-1-	-5-	-6-		
MEAN DOP (Hz)	15.0000	17.0000	0.0000	0.0000	0.0000	0.0000		
MS-BOP(Hz)2 sis	0.0000	0.0000	9.0000	0.0000	0.0000	-01000-		
ELAY (usec)	0	1000	0	0	0	0		
IGNAL (dBm)	-0.66	-10.56	-201.08	-201.08	-201.08	-201.08		
IGNAL (VRMS)	0.7 192-	0:2271-	-0.0000	0.0000-	0.0000-	-0.0000		
IGNAL (ON/OFF)	<0N>	<0N>	OFF	OFF	OFF	OFF		
IVERSITY NO.	1	1	1	1	1	1		

HIMPULSE NOISE CONFERANDOM O.000 dB RE PEAK-OUTPUT

FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

TEHANNEL-NOISE YONE, POWER IN dBm: -12.6562 RMS Voltade: 0.180413----

JAMMING OFF



HORSHAW BUSINESS CENTER BUILDING 3 300 WELSH ROAD HORSHAM, PA 19344 21:51 657:5770

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # S % & * () - _ + = :; " '

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ACT SECTION CE MARK NY MANGRESS MARKSTOPPING

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a h c d c f g h i j k l m n a p q t & L u v w x y x , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K I M N A P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = :; " '

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The following is a list of various retters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p g r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K I M N O P Q R S T U V W X Y 2 ! @ # C % & # () - _ + - ; ; **

The following is a list of various letters, numbers, and numbers with the first sum of the second set of the second seco

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b e d

TOTAL P. 1

TEST III-C-4

TYPE - PREMESSAGE

BW 600 TO 2800 HZ

S/N /4 dB

TRANSLATION _ O Hz

GROUP I S/F 5,5,5,5

GROUP II S/F 9,5,5,5

GROUP III S/F DATA RATE

| 1 | 5 | 2400
| 2 | 5 | 2400
| 3 | 5 | 2400
| 5 | 5 | 2400
| 5 | 5 | 2400
| 5 | 2400
| 5 | 2400

-1- -2- -3- -4- -5- -6-IMEAN DOP (Hz) 0.0000 0.0000 0.0000 0.0000 +RMS-DOP(Hz)2-sid---0+0000--0+0000 -- 0+0000 -- 0+0000--0+0000-Û IDELAY (usec) 0 0 -0.88 -201.05 -201.05 -201.05 -201.05 -201.05 ISIGNAL (dBm) 0+0000 0+0000 0+0000 OFF OFF OFF ISIGNAL (VRMS) -0+7002 --0+0000 - 0.0000 ISIGNAL (DN/OFF) OFF <0N> OFF 1 IDIVERSITY NO. | COMPOSITE RMS FADE RATE: 0.00000 Hertz HIMPULSE NOISE <0N>+-RANDOM 0+000-dB-RE FEAK-OUTPUT : FREQUENCY: 0.100000E+03 impulses/min PULSE WIDTH: 0.001000 seconds LUANMING OFF

TEST 111-C-4

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N /4 dB

PATHS 4/

TRANSLATION OHz

GROUP I

DOCUMENT 9-24-86 16:11

GROUP II

DOCUMENT 9-24-86 16:02

GROUP III DATA RATE 2400 bps

DOCUMENT <u>9-24-85</u> 15,52

(8 24 35 18:11 F.)



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ & & * { } - _ + = : ; **

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 C A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ \$ 5 % & * () - + = :; "



HORRYM GURESS CERTER, STRUCKS, 3 300 WELST FORD HORRYMA, PA. HISM PRO-MET-1270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f q h i j k l m n o p q r s t u v w x 7 z , . / 1 2 3 4 5 6 7 8 9 0 A 8 C D E F G B l J I L M N O P Q R S T D V W I Y 2 ! 8 4 \$ 2 & * () - _ + = :; * '

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T]TAL F. 1